PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

FOR FURTHER ACTION

International filing date (day/month/year)

10 November 2004 (10.11.2004)

International Patent Classification (8th edition unless older edition indicated)

(PCT Rule 44bis)

See item 4 below

Priority date (day/month/year)

10 November 2003 (10.11.2003)

| Appli CAM | icant BRIDGE DISPLAY TECHNOLOGY LIMITED |
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| | |
| 1. | This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. I(a). |
| 2. | This REPORT consists of a total of 6 sheets, including this cover sheet. |
| | In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. |
| 3. | This report contains indications relating to the following items: |
| | Box No. I Basis of the report |
| l | Box No. II Priority |

Non-establishment of opinion with regard to novelty, inventive step and industrial

applicability; citations and explanations supporting such statement

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial

 The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis 2.).

Certain observations on the international application

Certain defects in the international application

| | Date of issuance of this report 15 May 2006 (15.05.2006) |
|---|---|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized officer Nora Lindner |
| Facsimile No. +41 22 740 14 35 | Telephone No. +41 22 338 89 65 |

Applicant's or agent's file reference CDT498 WO

See relevant information in Form PCT/ISA/237

Box No. III

Box No. IV

Box No. V

Box No. VI

Box No. VII

Box No. VIII

applicability

Lack of unity of invention

Certain documents cited

International application No.

PCT/GB2004/004754

PATENT COOPERATION TREATY

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| | REC'D | 0 9 MAR 2005 | |
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From the INTERNATIONAL SEARCHING AUTHORITY

| То: | |
|----------------------|----------------------------|
| see form PCT/ISA/220 | WRITT INTERNATION (P |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43*bis*.1)

Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220 FOR FURTHER ACTION See paragraph 2 below

International application No.
PCT/GB2004/004754

International filing date (day/month/year) Priority date (day/month/year)
10.11.2004 10.11.2003

International Patent Classification (IPC) or both national classification and IPC C08G61/12, C07F7/18, C07F7/08

Applicant

CAMBRIDGE DISPLAY TECHNOLOGY LIMITED

- 1. This opinion contains indications relating to the following items:
 - Rox No. I Basis of the opinion
 - Box No. II Priority
 - ☐ Box No. III Non-establishment of opinion with regard to novelty, Inventive step and industrial applicability
 - ☐ Box No. IV Lack of unity of invention
 - ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, Inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Box No. VI Certain documents cited
 - Box No. VII Certain defects in the international application
 - Box No. VIII Certain observations on the international application
- 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authorly (PIEAT). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written restly topether, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCTASA220 or before the expiration of 22 months from the priority date, whichever excites later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 301 Tx: 31 651 epo nl Authorized Officer

Glanddier, A

Telephone No. +31 70 340-2606



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004754

| | Box | No. | I Basis of the opinion |
|----|----------------|-------------|---|
| 1. | With the la | reg angi | ard to the language, this opinion has been established on the basis of the international application in age in which it was filed, unless otherwise indicated under this item. |
| | - 1 | lanc | opinion has been established on the basis of a translation from the original language into the following juage , which is the language of a translation furnished for the purposes of international search fer Fulues 12.3 and 23.1(b)). |
| 2. | With | reg | ard to any nucleotide and/or amino acid sequence disclosed in the international application and ry to the claimed invention, this opinion has been established on the basis of: |
| | a. ty | рес | of material: |
| | | 1 | a sequence listing |
| | | 3 1 | table(s) related to the sequence listing |
| | b. fo | rma | et of material: |
| | | 3 | in written format |
| | | 3 | in computer readable form |
| | c. tir | ne e | of filling/furnishing: |
| | | 3 | contained in the international application as filed. |
| | | 3 | filed together with the international application in computer readable form. |
| | 0 | 3 | furnished subsequently to this Authority for the purposes of search. |
| 3 | . 🗆 | has | addition, in the case that more than one version or copy of a sequence listing and/or table relating therets been filed or furnished, the required statements that the information in the subsequent or additional lies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were turnished. |
| 4 | . Add | litio | nal comments: |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004754

| _ | Во | x No. II | Priority | | | | |
|----|-----------|---------------------------------|--|---|---------------------------|---|-----------|
| 1. | Ø | The fo | llowing document | has not bee | n furnishe | l: | |
| | | | copy of the earli | er application | whose p | iority has been claimed (Rule 43bis.1 and 66.7(a)) | |
| | | | translation of the | e earlier appl | ication wh | se priority has been claimed (Rule 43bis.1 and 66 | .7(b)). |
| | | Conse | equently it has not theless been estal | been possib blished on th | le to consi e assumpt | der the validity of the priority claim. This opinion ha on that the relevant date is the claimed priority da | as te. |
| 2. | | has be | | Rules 43bis. | 1 and 64.1 | ity had been claimed due to the fact that the priori). Thus for the purposes of this opinion, the internate he relevant date. | |
| 3. | | was n | ot available to the | ISA at the tir | me that the | of the priority claim because a copy of the priority search was conducted (Rule 17.1). This opinion is | nas |
| | | Heven | ineless deen estal | olished on th | e assumpt | on that the relevant date is the claimed priority da | e. |
| 4. | Ad | | observations, if ne | | e assumpt | on that the relevant date is the claimed priority da | e. |
| 4. | Ad | | | | e assumpi | on that the relevant date is the claimed priority da | e. |
| 4. | Ad | | | | e assumpi | on that the relevant date is the claimed priority da | e. |
| 4. | Во | ditional | observations, if ne | ecessary: | er Rule 43 | on that the relevant date is the claimed priority date is the claimed priority date is the claimed priority date is statement. bis.1(a)(i) with regard to novelty, inventive steps as supporting such statement. | |
| _ | Bo | ditional | observations, if ne | ecessary: | er Rule 43 | bis.1(a)(i) with regard to novelty, inventive ste | |
| _ | Bo inc | ditional x No. V fustrial | observations, if ne Reasoned state applicability; cit | ecessary: stement und ations and e | er Rule 43 | bis.1(a)(i) with regard to novelty, inventive ste | |
| _ | Sta No | x No. V fustrial atement | observations, if ne Reasoned state applicability; cit | ecessary: stement und ations and e Yes: No: | er Rule 43 explanation | bis.1(a)(i) with regard to novelty, inventive steps supporting such statement 22-28, 30-34 | |

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: EP-A-1 318 163 (SUMITOMO CHEMICAL COMPANY, LIMITED) 11 June 2003 (2003-06-11)
- D2: EP-A-1 143 538 (CHISSO CORPORATION) 10 October 2001 (2001-10-10)

1. Claims 1-14

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-14 is not new in the sense of Article 33(2) PCT.

D1 discloses (the references in parentheses applying to this document) a polymer with repeating formula (1). In the case of R¹ being a phenyl group and R being cyano, keton or ester groups (page 12 last formula; page 13 first formula; page 13, line 25, first formula), the subject-matter of present application of claims 1-4 is not novel. The monomer of claims 5 and 6, the method of forming the polymer in claims 7-9 and its use in claims 10-14 are also disclosed (claims 13, 32).

2 Claims 15-21, 29, 35-39

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 15-21, 29 and 35-39 is not new in the sense of Article 33(2) PCT.

D2 discloses (the references in parentheses applying to this document): a monomer (formula XVII page 9), X being a halogen and R hydrogen. The same monomer is claimed in the present application in claims 15, 16 and 29, as is the method of forming a monomer of formula VI or VII in claims 17-21 and 35-39.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/004754

3, Claims 22-28, 30-34

D1 is regarded as being the closest prior art to the subject-matter of claim 22-28 and 30-34 and shows a polymer exclusively linked in the 2- and 6-positions. The present application claims a polymer linked in the 3- and 6-position. There is no suggestion in D1 or the other prior art to change the position of the substitution in the polymer.

The subject-matter of claims 22-28 and 30-34 is therefore new and inventive (Article 33(2), (3) PCT).